Moayad Aloqaily

List of Publications by Year
in descending order

136 papers	4,991 citations	76294 40 h-index	110317 64 g-index
138 all docs	138 docs citations	138 times ranked	3893 citing authors

#	Article	IF	Citations
1	An intrusion detection system for connected vehicles in smart cities. Ad Hoc Networks, 2019, 90, 101842.	3.4	278
2	Blockchain-Enhanced Data Sharing With Traceable and Direct Revocation in IIoT. IEEE Transactions on Industrial Informatics, 2021, 17, 7669-7678.	7.2	206
3	Attribute-Based Encryption With Parallel Outsourced Decryption for Edge Intelligent IoV. IEEE Transactions on Vehicular Technology, 2020, 69, 13784-13795.	3.9	168
4	Digital Twin for Intelligent Context-Aware IoT Healthcare Systems. IEEE Internet of Things Journal, 2021, 8, 16749-16757.	5.5	166
5	An Edge Computing Based Smart Healthcare Framework for Resource Management. Sensors, 2018, 18, 4307.	2.1	141
6	An Authentic-Based Privacy Preservation Protocol for Smart e-Healthcare Systems in IoT. IEEE Access, 2019, 7, 135632-135649.	2.6	138
7	A Blockchain Framework for Securing Connected and Autonomous Vehicles. Sensors, 2019, 19, 3165.	2.1	135
8	Privacy-Preserving Multiobjective Sanitization Model in 6G IoT Environments. IEEE Internet of Things Journal, 2021, 8, 5340-5349.	5.5	133
9	Blockchain for Managing Heterogeneous Internet of Things: A Perspective Architecture. IEEE Network, 2020, 34, 16-23.	4.9	122
10	Notice of Retraction: AI Techniques for COVID-19. IEEE Access, 2020, 8, 128776-128795.	2.6	117
11	An incentive-aware blockchain-based solution for internet of fake media things. Information Processing and Management, 2020, 57, 102370.	5.4	116
12	Federated Learning in Vehicular Networks: Opportunities and Solutions. IEEE Network, 2021, 35, 152-159.	4.9	107
13	Privacy Management in Social Internet of Vehicles: Review, Challenges and Blockchain Based Solutions. IEEE Access, 2019, 7, 79694-79713.	2.6	105
14	Improving fog computing performance via Fog-2-Fog collaboration. Future Generation Computer Systems, 2019, 100, 266-280.	4.9	104
15	Providing secure and reliable communication for next generation networks in smart cities. Sustainable Cities and Society, 2020, 56, 102080.	5.1	93
16	Data and Service Management in Densely Crowded Environments: Challenges, Opportunities, and Recent Developments. IEEE Communications Magazine, 2019, 57, 81-87.	4.9	86
17	A blockchain-empowered crowdsourcing system for 5G-enabled smart cities. Computer Standards and Interfaces, 2021, 76, 103517.	3.8	84
18	A Profitable and Energy-Efficient Cooperative Fog Solution for IoT Services. IEEE Transactions on Industrial Informatics, 2020, 16, 3578-3586.	7.2	81

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19	A continuous diversified vehicular cloud service availability framework for smart cities. Computer Networks, 2018, 145, 207-218.	3.2	80
20	Constructing a prior-dependent graph for data clustering and dimension reduction in the edge of AIoT. Future Generation Computer Systems, 2022, 128, 381-394.	4.9	77
21	Blockchain-based database in an IoT environment: challenges, opportunities, and analysis. Cluster Computing, 2020, 23, 2151-2165.	3.5	76
22	PriNergy: a priority-based energy-efficient routing method for IoT systems. Journal of Supercomputing, 2020, 76, 8609-8626.	2.4	75
23	Soft Computing-Based EEG Classification by Optimal Feature Selection and Neural Networks. IEEE Transactions on Industrial Informatics, 2019, 15, 5747-5754.	7.2	71
24	A collaborative mobile edge computing and user solution for service composition in 5G systems. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3446.	2.6	68
25	A Blockchain-empowered Access Control Framework for Smart Devices in Green Internet of Things. ACM Transactions on Internet Technology, 2021, 21, 1-20.	3.0	68
26	Design Guidelines for Blockchain-Assisted 5G-UAV Networks. IEEE Network, 2021, 35, 64-71.	4.9	67
27	An SDN architecture for time sensitive industrial IoT. Computer Networks, 2021, 186, 107739.	3.2	64
28	Social Behaviometrics for Personalized Devices in the Internet of Things Era. IEEE Access, 2017, 5, 12199-12213.	2.6	62
29	Blockchain and Fog Computing for Cyberphysical Systems: The Case of Smart Industry. Computer, 2020, 53, 36-45.	1.2	61
30	An Energy Trade Framework Using Smart Contracts: Overview and Challenges. IEEE Network, 2020, 34, 119-125.	4.9	61
31	Low-latency vehicular edge: A vehicular infrastructure model for 5G. Simulation Modelling Practice and Theory, 2020, 98, 101968.	2.2	59
32	Cloud-Based Multi-Agent Cooperation for IoT Devices Using Workflow-Nets. Journal of Grid Computing, 2019, 17, 625-650.	2.5	58
33	Sustainability of Healthcare Data Analysis IoT-Based Systems Using Deep Federated Learning. IEEE Internet of Things Journal, 2022, 9, 7338-7346.	5.5	58
34	Multiagent/multiobjective interaction game system for service provisioning in vehicular cloud. IEEE Access, 2016, 4, 3153-3168.	2.6	53
35	Cyberphysical Blockchain-Enabled Peer-to-Peer Energy Trading. Computer, 2020, 53, 56-65.	1.2	52
36	A smart healthcare reward model for resource allocation in smart city. Multimedia Tools and Applications, 2019, 78, 24573-24594.	2.6	51

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37	SynergyChain: Blockchain-Assisted Adaptive Cyber-Physical P2P Energy Trading. IEEE Transactions on Industrial Informatics, 2021, 17, 5769-5778.	7.2	51
38	Connected and Autonomous Electric Vehicles (CAEVs). IT Professional, 2018, 20, 54-61.	1.4	49
39	QoS enhancement with deep learning-based interference prediction in mobile IoT. Computer Communications, 2019, 148, 86-97.	3.1	46
40	Generalizing AI: Challenges and Opportunities for Plug and Play AI Solutions. IEEE Network, 2021, 35, 372-379.	4.9	44
41	Artificial intelligence framework for smart city microgrids: State of the art, challenges, and opportunities. , 2018, , .		43
42	Intelligent jamming-aware routing in multi-hop IoT-based opportunistic cognitive radio networks. Ad Hoc Networks, 2020, 98, 102035.	3.4	43
43	Real-Time Route Planning and Data Dissemination for Urban Scenarios Using the Internet of Things. IEEE Wireless Communications, 2019, 26, 50-55.	6.6	38
44	Edge Intelligence for Empowering IoT-Based Healthcare Systems. IEEE Wireless Communications, 2021, 28, 6-14.	6.6	36
45	Comparing Fog Solutions for Energy Efficiency in Wireless Networks: Challenges and Opportunities. IEEE Wireless Communications, 2019, 26, 80-86.	6.6	35
46	A cooperative resource allocation model for IoT applications in mobile edge computing. Computer Communications, 2021, 173, 183-191.	3.1	35
47	IoT-BSFCAN: A smart context-aware system in IoT-Cloud using mobile-fogging. Future Generation Computer Systems, 2020, 109, 368-381.	4.9	34
48	FederatedGrids: Federated Learning and Blockchain-Assisted P2P Energy Sharing. IEEE Transactions on Green Communications and Networking, 2022, 6, 424-436.	3.5	34
49	A Mobility Management Architecture for Seamless Delivery of 5G-IoT Services. , 2019, , .		33
50	EdgeKV: Decentralized, scalable, and consistent storage for the edge. Journal of Parallel and Distributed Computing, 2020, 144, 28-40.	2.7	32
51	A re-organizing biosurveillance framework based on fog and mobile edge computing. Multimedia Tools and Applications, 2021, 80, 16805-16825.	2.6	31
52	Enabling Intelligent IoCV Services at the Edge for 5G Networks and Beyond. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5190-5200.	4.7	28
53	A survey of blockchain applications in sustainable and smart cities. Cluster Computing, 2022, 25, 3915-3936.	3.5	27
54	Efficient and reliable forensics using intelligent edge computing. Future Generation Computer Systems, 2021, 118, 230-239.	4.9	26

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55	Intelligent Control and Security of Fog Resources in Healthcare Systems via a Cognitive Fog Model. ACM Transactions on Internet Technology, 2021, 21, 1-23.	3.0	25
56	Reinforcing the Edge: Autonomous Energy Management for Mobile Device Clouds. , 2019, , .		23
57	A Blockchain-Based Decentralized Composition Solution for IoT Services. , 2020, , .		23
58	UAV-Assisted Vehicular Communication for Densely Crowded Environments. , 2020, , .		23
59	Energy-Efficient Cross-Layer Spectrum Sharing in CR Green IoT Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 1091-1100.	3.5	21
60	A multi-stage resource-constrained spectrum access mechanism for cognitive radio IoT networks: Time-spectrum block utilization. Future Generation Computer Systems, 2020, 110, 254-266.	4.9	20
61	On the Role of Futuristic Technologies in Securing UAV-Supported Autonomous Vehicles. IEEE Consumer Electronics Magazine, 2022, 11, 93-105.	2.3	20
62	Deep Federated Learning for IoT-based Decentralized Healthcare Systems. , 2021, , .		19
63	Exploring Computing at the Edge: A Multi-Interface System Architecture Enabled Mobile Device Cloud. , 2018, , .		18
64	Congestion Mitigation in Densely Crowded Environments for Augmenting QoS in Vehicular Clouds. , 2018, , .		18
65	Resource Efficient Allocation and RRH Placement for Backhaul of Moving Small Cells. IEEE Access, 2019, 7, 47379-47389.	2.6	18
66	Intelligent Resource Management at the Edge for Ubiquitous IoT: An SDN-Based Federated Learning Approach. IEEE Network, 2021, 35, 114-121.	4.9	18
67	Fog resource selection using historical executions. , 2018, , .		17
68	Energy-Aware Blockchain and Federated Learning-Supported Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22641-22652.	4.7	17
69	Carpooling in Connected and Autonomous Vehicles: Current Solutions and Future Directions. ACM Computing Surveys, 2022, 54, 1-36.	16.1	17
70	On the impact of quality of experience (QoE) in a vehicular cloud with various providers. , 2014, , .		16
71	Vehicle as a resource for continuous service availability in smart cities. , 2017, , .		16
72	Probabilistic inference-based modeling for sustainable environmental systems under hybrid cloud infrastructure. Simulation Modelling Practice and Theory, 2021, 107, 102215.	2.2	16

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73	Editorial: deep learning for 5G IoT systems. International Journal of Machine Learning and Cybernetics, 2021, 12, 3049-3051.	2.3	16
74	Testbed of QoS Ad-Hoc Network Designed for Cooperative Multi-drone Tasks. , 2019, , .		16
75	Edge-Assisted Solutions for IoT-Based Connected Healthcare Systems: A Literature Review. IEEE Internet of Things Journal, 2022, 9, 9419-9443.	5.5	16
76	Data caching and selection in 5G networks using F2F communication. , 2017, , .		15
77	A Power Management Approach to Reduce Energy Consumption for Edge Computing Servers. , 2019, , .		15
78	An Incentive-based Mechanism for Volunteer Computing Using Blockchain. ACM Transactions on Internet Technology, 2021, 21, 1-22.	3.0	15
79	Fairness-Aware Game Theoretic Approach for Service Management in Vehicular Clouds. , 2017, , .		14
80	Vehicular clouds: State of the art, challenges and future directions. , 2015, , .		13
81	Secure Routing in Multi-hop IoT-based Cognitive Radio Networks under Jamming Attacks. , 2019, , .		13
82	Resource Allocation in Moving Small Cell Network using Deep Learning based Interference Determination. , 2019, , .		12
83	Blockchain-assisted Decentralized Virtual Prosumer Grouping for P2P Energy Trading. , 2020, , .		12
84	EPS-TRA: Energy Efficient Peer Selection and Time Switching Ratio Allocation for SWIPT-Enabled D2D Communication. IEEE Transactions on Sustainable Computing, 2020, 5, 428-437.	2.2	12
85	Design Guidelines for Cooperative UAV-supported Services and Applications. ACM Computing Surveys, 2022, 54, 1-35.	16.1	12
86	An adaptive UAV positioning model for sustainable smart transportation. Sustainable Cities and Society, 2022, 78, 103617.	5.1	12
87	CRACAU: Byzantine Machine Learning Meets Industrial Edge Computing in Industry 5.0. IEEE Transactions on Industrial Informatics, 2022, 18, 5435-5445.	7.2	11
88	On Minimizing Synchronization Cost in NFV-based Environments. , 2020, , .		10
89	Machine learning-based indoor localization and occupancy estimation using 5G ultra-dense networks. Simulation Modelling Practice and Theory, 2022, 118, 102543.	2.2	10
90	Reliable Broadcast in Networks with Trusted Nodes. , 2019, , .		9

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91	A non-cooperative rear-end collision avoidance scheme for non-connected and heterogeneous environment. Computer Communications, 2020, 150, 828-840.	3.1	9
92	SynergyGrids: blockchain-supported distributed microgrid energy trading. Peer-to-Peer Networking and Applications, 2022, 15, 884-900.	2.6	9
93	Intelligent Blockchain-Enabled Communication and Services: Solutions for Moving Internet of Things Devices. IEEE Robotics and Automation Magazine, 2022, 29, 10-20.	2.2	9
94	A location-aware user tracking and prediction system. , 2009, , .		8
95	Provisioning delay effect of partaking a Trusted Third Party in a vehicular cloud. , 2014, , .		8
96	An Auction-Driven Multi-Objective Provisioning Framework in a Vehicular Cloud. , 2015, , .		8
97	A Generalized Framework for Quality of Experience (QoE)-Based Provisioning in a Vehicular Cloud. , 2015, , .		8
98	Connected, Autonomous and Electric Vehicles: The Optimum Value for a Successful Business Model. , 2018, , .		8
99	Energy-efficient user association with load-balancing for cooperative IIoT network within B5G era. Journal of Network and Computer Applications, 2021, 189, 103110.	5.8	8
100	Blockchain and FL-based Network Resource Management for Interactive Immersive Services. , 2021, , .		8
101	C-HealthIER: A Cooperative Health Intelligent Emergency Response System for C-ITS. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-11.	4.7	8
102	A probabilistic process learning approach for service composition in cloud networks. , 2017, , .		7
103	Scalable Video Streaming for Real-Time Multimedia Applications over DDS Middleware for Future Internet Architecture. , 2018, , .		7
104	Applied Comparative Evaluation of the Metasploit Evasion Module. , 2019, , .		7
105	BBB: A Lightweight Approach to Evaluate Private Blockchains in Clouds. , 2020, , .		7
106	Real World Modeling and Design of Novel Simulator for Affective Computing Inspired Autonomous Vehicle. , 2019, , .		6
107	Reinforcing Cloud Environments via Index Policy for Bursty Workloads. , 2020, , .		6
108	Trustworthy Cooperative UAV-Based Data Management in Densely Crowded Environments. IEEE Communications Standards Magazine, 2021, 5, 18-24.	3.6	6

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109	Trusted Third Party for service management in vehicular clouds. , 2017, , .		5
110	Reliable broadcast with trusted nodes: Energy reduction, resilience, and speed. Computer Networks, 2020, 182, 107486.	3.2	5
111	FedCo: A Federated Learning Controller for Content Management in Multi-party Edge Systems. , 2021, , .		5
112	Intelligent Cooperative Health Emergency Response System in Autonomous Vehicles. , 2021, , .		5
113	Special Issue on Cybersecurity Management in the Era of AI. Journal of Network and Systems Management, 2022, 30, 1.	3.3	5
114	A novel communication system for firefighters using audio/video conferencing/sub-conferencing in standalone MANETs. , 2013, , .		4
115	A hybrid-based 3D streaming framework for mobile devices over IoT environments. , 2018, , .		4
116	Joint pairing and resource allocation for backhaul of small cells using NOMA. Journal of Computational Science, 2020, 45, 101197.	1.5	4
117	Energy Efficiency in SDDC: Considering Server and Network Utilities. , 2020, , .		4
118	Federated Vehicular Networks: Design, Applications, Routing, and Evaluation. , 2020, , .		4
119	Multiparty/multimedia conferencing in mobile Ad Hoc networks for improving communications between firefighters. , 2013, , .		3
120	Batch-based Power-controlled Channel Assignment for Improved Throughput in Software-defined Networks. , 2019, , .		3
121	Efficient In-Network Caching in NDN-based Connected Vehicles. , 2021, , .		3
122	A Feasibility Study on Sustainability-Driven Infrastructure Management in Cloud Data Centers. , 2018, , .		2
123	Efficient and Robust Top-k Algorithms for Big Data IoT. , 2020, , .		2
124	Application of Graph Theory in IoT for Optimization of Connected Healthcare System. , 2020, , .		2
125	Guest Editorial: Empowering Sustainable Energy Infrastructures via AI-Assisted Wireless Communications. IEEE Wireless Communications, 2021, 28, 10-12.	6.6	2
126	Evaluation of Deep Learning Models in ITS Software-Defined Intrusion Detection Systems. , 2022, , .		2

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127	A policy-based location-aware framework for personalized services in cloud computing systems. , 2015, , .		1
128	An application to manage widespread social media accounts with one smart touch. , 2018, , .		1
129	Backhaul Pairing of Small Cells Using Non-Orthogonal Multiple Access. , 2019, , .		1
130	Cluster Aware Mobility Encounter Dataset Enlargement. , 2019, , .		1
131	IEEE Access Special Section Editorial: Scalable Deep Learning for Big Data. IEEE Access, 2020, 8, 216617-216622.	2.6	1
132	m-RENDEZVOUS: Multi-Agent Asynchronous Rendezvous Search Technique. Future Generation Computer Systems, 2022, 126, 185-195.	4.9	1
133	Hierarchical Timed Colored Petri-Net Based Modeling and Evaluation of a Bank Credit Monitoring System. , 2019, , .		0
134	EdgeKV: Distributed Key-Value Store for the Network Edge. , 2020, , .		0
135	Special Issue on Internet of Things: Intelligent Networks, Communication and Mobility (AdHocNets) Tj ETQq1 1 0.784314 rgBT /Overl	2.2	0
136	Energy-aware spectrum coordination with intelligent frequency-hopping for software defined networks. Sustainable Computing: Informatics and Systems, 2022, 35, 100714.	1.6	0